

**„DZEMAL BIJEDIC“ UNIVERSITY OF MOSTAR  
FACULTY OF CIVIL ENGINEERING**

<b>Unit:</b>	<b>Soil and rock mechanics I</b>	<b>Subject code:</b>
<b>Level:</b>	Undergraduate	
<b>Professor:</b>	Assistant Professor Dr Azra Špago	
<b>Contact details:</b>	E-mail: azra.krvavac@unmo.ba	Tel: +387 36 514-864
<b>Contact hours:</b>	Lectures per week: 3	Practicals/tutorials per week: 2
<b>ECTS:</b>	6 ECTS	
<b>Unit status:</b>	Core	
<b>Prerequisites:</b>	-	
<b>Synopsis:</b>	Basic characteristics of soil. In situ tests. Seepage. Shear strength. Stresses and displacements. Lateral earth pressure. Retaining walls. Consolidation theory. Bearing capacity. Slope stability. Basic characteristics of rock.	
<b>Aims:</b>	The aim of the course is to educate students about the basic concepts of mechanics of soils and rock.	
<b>Outcomes</b>	Acquiring the necessary knowledge as the basis for the subject of Geotechnical Engineering	
<b>Teaching methods:</b>	Lectures, practicals/tutorials/self-directed learning exercises	
<b>Assessment:</b>	Three tests 50 %; Three practical reports and essays: 50%	
<b>Prescribed literature:</b>	<ol style="list-style-type: none"> <li>1. Craig R. F., <i>Soil mechanics</i>, Published by CRC Press, 2010.</li> <li>2. Eurocode 7- Part 1, General rules</li> <li>3. Eurocode 7- Part 2, Ground investigations and testing</li> <li>4. Hoek E., <i>Practical rock engineering</i>, New 2007 edition., A course notes, <a href="http://www.rocscience.com">www.rocscience.com</a></li> <li>5. <a href="http://www.rockscience.com">http://www.rockscience.com</a>.</li> </ol>	